

### Claims

1. A mounting cylinder (1) for mounting cylindrical embossing tools for embossing rolls, comprising
  - a shaft (2),
  - a mounting shell (3) having an outer surface (10) for mounting a cylindrical embossing tool,
  - a fixing device (5) for fixing the mounting shell (3) coaxially on the shaft (2),
  - a tempering device for tempering the surface (10) of the mounting shell (3), and
  - a device for detaching the embossing tool from the surface by means of compressed air by at least one compressed air feed opening (9) and radial compressed air discharge openings (11) being provided in the mounting shell (3) through which compressed air can flow out of the surface (10) to expand a cylindrical embossing tool slipped over the mounting shell (3),characterized in that the mounting shell comprises between the at least one compressed air feed opening (9) and the compressed air discharge openings (11) a compressed air pipe system (8) extending at least one of axially or tangentially within the mounting shell (3).
2. A mounting cylinder according to claim 1, characterized in that the at least one compressed air feed opening (9) is located on an axial face of the mounting shell (3).
3. A mounting cylinder according to claim 1, characterized in that the at least one compressed air feed opening (9) is located on a radially inside surface of the mounting shell (3).
4. A mounting cylinder according to claim 1, characterized in that the compressed air pipe system (8) is realized as a channel pipe system within the mounting shell (3).

5. A mounting cylinder according to claim 3, characterized in that the mounting shell (3) is formed as a double-walled hollow cylinder and the compressed air pipe system (8) is realized as a pipe system within the hollow space formed between the cylinder walls.
6. A mounting cylinder (1) for mounting cylindrical embossing tools for embossing rolls, comprising
  - a shaft (2),
  - a mounting shell (3) having an outer surface (10) for mounting a cylindrical embossing tool,
  - a fixing device (19) for fixing the mounting shell (3) on the shaft (2), and
  - a tempering device for tempering the surface (10) of the mounting shell (3),characterized in that the mounting shell (3) is expandable radially by the fixing device (19) such that the mounting shell (3) is firmly clamped on the fixing device (19) and in addition a embossing tool slipped over the mounting shell (3) is firmly clampable on the surface (10) of the mounting shell (3).
7. A mounting cylinder according to claim 1, characterized in that the fixing device (15, 19) comprises a pressure sleeve.
8. A mounting cylinder according to claim 1, characterized in that the fixing device (15, 19) comprises a clamping jaw.
9. A mounting cylinder according to claim 1, characterized in that the tempering device comprises between the shaft (2) and the mounting shell (3) an axially sealed hollow space (12) for receiving tempering fluid.
10. A mounting cylinder according to claim 1, characterized in that the tempering device is realized within the mounting shell as a channel pipe system for tempering fluid to flow through.
11. A mounting cylinder according to claim 1, wherein the mounting shell is formed as a double-walled hollow cylinder, at least one feed opening (16)

and one discharge opening (17) for feeding and discharging tempering fluid being provided to the space between the cylinder walls.

12. A mounting cylinder according to claim 1, wherein the mounting shell is formed as a double-walled hollow cylinder, the tempering device being realized between the cylinder walls as a pipe system for tempering fluid to flow through.
13. A mounting cylinder according to claim 9, characterized in that the shaft (2) is hollow and is used for feeding and discharging tempering fluid.
14. A mounting cylinder according to claim 13, characterized in that the shaft (2) comprises separate feed and discharge pipes (14, 18) so that tempering fluid can be fed and discharged continuously.
15. A mounting cylinder according to claim 1, characterized in that the mounting shell (3) is made of aluminum or an aluminum alloy.
16. A method for mounting a cylindrical embossing tool for an embossing roll using a mounting cylinder according to claim 1.
17. The mounting cylinder of claim 1 wherein said outer surface is provided with hard-coating.
18. The mounting cylinder of claim 6 wherein said outer surface is provided with hard-coating.